U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

SEARCH REQUEST FORM

Requestor's Name: Jonah Cocks | Serial Number: 08/817,567

Date: 7/23/98 | Phone: 305-0450 | Art Unit: 3743

Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevent citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevent claim(s).

Have the following Norwegian inventors published any articles prior to 10/12/94 concerning a method and/or apparatus for igniting inflammable/flammable gases.

Sjur Dagestad
Tom Ødemark
Magne Bjørkhaug

STAFF USE ONLY

Date completed: 7.24.98
Searcher: _____
Terminal time: _____
Elapsed time: _____
CPU time: _____
Total time: _____
Number of Searches: _____
Number of Databases: _____

Search Site

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Type of Search

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_____ A.A. Sequence
_____ Structure
_____ Bibliographic

Vendors

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_____ STN
_____ Dialog
_____ APS
_____ Geninfo
_____ SDC
_____ DARC/Questel
_____ Other

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(FILE 'HCAPLUS' ENTERED AT 21:28:23 ON 24 JUL 1998)
DEL HIS Y
E DAGESTAD/AU
E ODEMARK/AU
E OEDEMARK/AU
E BJORKHAUG/AU

Chem. Abstracts
— nothing —

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FILE 'WPIDS' ENTERED AT 21:33:21 ON 24 JUL 1998
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L2              3 S E4
                E ODEMARK/AU
L3              2 S E5
                E BJORKHAUG/AU
L4              3 S E4
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Derwent

L2 ANSWER 2 OF 3 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD
ACCESSION NUMBER: 96-222093 [22] WPIDS
DOC. NO. NON-CPI: N96-186342
TITLE: Method for igniting combustible gases - has ignition pellets moving at controlled low speeds in guide tube to be lit in gas cloud at flare region.
DERWENT CLASS: Q73
INVENTOR(S): **DAGESTAD, S**; ODEMARK, T
PATENT ASSIGNEE(S): (TECH-N) TECHNO CONSULT AS
COUNTRY COUNT: 66
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 9612142	A1	960425	(9622)*	EN	19
RW: AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ UG					
W: AL AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG US UZ VN					
NO 9403851	A	960415	(9624)		
AU 9537115	A	960506	(9636)		
NO 179762	B	960902	(9641)		
GB 2307733	A	970604	(9725)		1
GB 2307733	B	980708	(9829)		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9612142	A1	WO 95-NO183	951009
NO 9403851	A	NO 94-3851	941012
AU 9537115	A	AU 95-37115	951009
NO 179762	B	NO 94-3851	941012
GB 2307733	A	WO 95-NO183	951009
		GB 97-5751	970320
GB 2307733	B	WO 95-NO183	951009
		GB 97-5751	970320

FILING DETAILS:

PATENT NO	KIND		PATENT NO
AU 9537115	A	Based on	WO 9612142
NO 179762	B	Previous Publ.	NO 9403851
GB 2307733	A	Based on	WO 9612142
GB 2307733	B	Based on	WO 9612142

PRIORITY APPLN. INFO: NO 94-3851 941012
AN 96-222093 [22] WPIDS
AB WO 9612142 A UPAB: 960604
The method involves igniting combustible gases (1) from a flare (2) of a tower by a device (4) launched towards the gas cloud. The device is propelled at a low controlled speed by a pressure medium through a guidance tube (6) to the gas cloud.

The ignition device undergoes a reaction to ignite the gas cloud in the flare region. The time for the activation and reaction of device is predetermined and adapted to the particular flare tower application. The reaction may be impact on a target to produce a shower of sparks to ignite the gas cloud.

USE/ADVANTAGE - The ignition pellet has a controlled low speed which reduces the safety zone required around the flare tower.

L2 ANSWER 3 OF 3 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD
ACCESSION NUMBER: 95-036621 [05] WPIDS
DOC. NO. NON-CPI: N95-028791
TITLE: Igniting inflammable and combustible gases in flame tower of oil and gas drilling platform - having primer projectile fired in path towards release of gas forming flow of incandescent particles into gas flow providing ignition.
DERWENT CLASS: Q73
INVENTOR(S): BJORKHAUG, M; **DAGESTAD, S**; ODEMARK, T; BJ RKHAUG, M; DEMARK, T
PATENT ASSIGNEE(S): (DENO) DEN NORSKE STATS OLJESELSKAP AS; (DENO) STATOIL DEN NORSKE STATS OLJESELSKAP AS
COUNTRY COUNT: 3
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 9429648	A1	941222	(9505)*	EN	20
NO 9302017	A	941205	(9506)		
AU 9469856	A	950103	(9521)		
NO 177162	B	950418	(9521)		
GB 2295448	A	960529	(9625)		1
GB 2295448	B	970312	(9714)		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9429648	A1	WO 94-NO101	940530
NO 9302017	A	NO 93-2017	930603
AU 9469856	A	AU 94-69856	940530
NO 177162	B	NO 93-2017	930603
GB 2295448	A	WO 94-NO101	940530
		GB 95-24593	951201
GB 2295448	B	WO 94-NO101	940530
		GB 95-24593	951201

FILING DETAILS:

PATENT NO	KIND		PATENT NO
AU 9469856	A	Based on	WO 9429648
NO 177162	B	Previous Publ.	NO 9302017
GB 2295448	A	Based on	WO 9429648
GB 2295448	B	Based on	WO 9429648

PRIORITY APPLN. INFO: NO 93-2017 930603
AN 95-036621 [05] WPIDS
AB WO 9429648 A UPAB: 950207
The process involves releasing a flow of combustible gas (18) into a flame tower (62), where a primer (14) is used to produce a temperature sufficient in a particular portion of the gas flow for the gas to be ignited. The primer is fired in a path (16) in a direction towards the gas release, and impacts against a stop (24) and detonates.

This spreads a stream of incandescent particles (26) into the outflowing combustible gas (18), which is then ignited. The primer is fired using a pressure fluid-priming mechanism (10), using air. A set number of primers are fired to ensure that the gas is ignited.

ADVANTAGE - Produces high lighting reliability even at first firing off.

Dwg.1/4

ABEQ GB 2295448 B UPAB: 970407

Process for the ignition of combustible gas which is released in a flame tower, where a priming means is fired towards the gas release and brought to produce a temperature sufficient in a portion of the gas flow, for the gas to be ignited, wherein the priming means is caused to impact against a stop means arranged at the gas release whereby the priming means detonates and spreads a stream of incandescent particles into the outflowing combustible gas, which is thereby ignited.

Dwg.1

=> d l3 1-2 ibib abs

L3 ANSWER 1 OF 2 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD
ACCESSION NUMBER: 96-222093 [22] WPIDS
DOC. NO. NON-CPI: N96-186342
TITLE: Method for igniting combustible gases - has ignition pellets moving at controlled low speeds in guide tube to be lit in gas cloud at flare region.
DERWENT CLASS: Q73
INVENTOR(S): DAGESTAD, S; **ODEMARK, T**
PATENT ASSIGNEE(S): (TECH-N) TECHNO CONSULT AS
COUNTRY COUNT: 66
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 9612142	A1	960425	(9622)*	EN	19
RW: AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ UG					
W: AL AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG US UZ VN					
NO 9403851	A	960415	(9624)		
AU 9537115	A	960506	(9636)		
NO 179762	B	960902	(9641)		
GB 2307733	A	970604	(9725)		1
GB 2307733	B	980708	(9829)		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9612142	A1	WO 95-NO183	951009
NO 9403851	A	NO 94-3851	941012
AU 9537115	A	AU 95-37115	951009
NO 179762	B	NO 94-3851	941012
GB 2307733	A	WO 95-NO183	951009
		GB 97-5751	970320
GB 2307733	B	WO 95-NO183	951009
		GB 97-5751	970320

FILING DETAILS:

PATENT NO	KIND		PATENT NO
AU 9537115	A	Based on	WO 9612142
NO 179762	B	Previous Publ.	NO 9403851
GB 2307733	A	Based on	WO 9612142
GB 2307733	B	Based on	WO 9612142

PRIORITY APPLN. INFO: NO 94-3851 941012
AN 96-222093 [22] WPIDS
AB WO 9612142 A UPAB: 960604
The method involves igniting combustible gases (1) from a flare (2) of a tower by a device (4) launched towards the gas cloud. The device is propelled at a low controlled speed by a pressure medium through a guidance tube (6) to the gas cloud.

The ignition device undergoes a reaction to ignite the gas cloud in the flare region. The time for the activation and reaction of device is predetermined and adapted to the particular flare tower application. The reaction may be impact on a target to produce a shower of sparks to ignite the gas cloud.

USE/ADVANTAGE - The ignition pellet has a controlled low speed which reduces the safety zone required around the flare tower. Dwg.1/6

L3 ANSWER 2 OF 2 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD

ACCESSION NUMBER: 95-036621 [05] WPIDS
DOC. NO. NON-CPI: N95-028791
TITLE: Igniting inflammable and combustible gases in flame tower of oil and gas drilling platform - having primer projectile fired in path towards release of gas forming flow of incandescent particles into gas flow providing ignition.
DERWENT CLASS: Q73
INVENTOR(S): BJORKHAUG, M; DAGESTAD, S; **ODEMARK, T**; BJ RKHAUG, M; DEMARK, T
PATENT ASSIGNEE(S): (DENO) DEN NORSKE STATS OLJESELSKAP AS; (DENO) STATOIL DEN NORSKE STATS OLJESELSKAP AS
COUNTRY COUNT: 3
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 9429648	A1	941222	(9505)*	EN	20
NO 9302017	A	941205	(9506)		
AU 9469856	A	950103	(9521)		
NO 177162	B	950418	(9521)		
GB 2295448	A	960529	(9625)		1
GB 2295448	B	970312	(9714)		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9429648	A1	WO 94-NO101	940530
NO 9302017	A	NO 93-2017	930603
AU 9469856	A	AU 94-69856	940530
NO 177162	B	NO 93-2017	930603
GB 2295448	A	WO 94-NO101	940530
		GB 95-24593	951201
GB 2295448	B	WO 94-NO101	940530
		GB 95-24593	951201

FILING DETAILS:

PATENT NO	KIND		PATENT NO
AU 9469856	A	Based on	WO 9429648
NO 177162	B	Previous Publ.	NO 9302017
GB 2295448	A	Based on	WO 9429648
GB 2295448	B	Based on	WO 9429648

PRIORITY APPLN. INFO: NO 93-2017 930603
AN 95-036621 [05] WPIDS
AB WO 9429648 A UPAB: 950207
The process involves releasing a flow of combustible gas (18) into a flame tower (62), where a primer (14) is used to produce a temperature sufficient in a particular portion of the gas flow for the gas to be ignited. The primer is fired in a path (16) in a direction towards the gas release, and impacts against a stop (24) and detonates.

This spreads a stream of incandescent particles (26) into the outflowing combustible gas (18), which is then ignited. The primer

is fired using a pressure fluid-priming mechanism (10), using air. A set number of primers are fired to ensure that the gas is ignited.

ADVANTAGE - Produces high lighting reliability even at first firing off.

Dwg.1/4

ABEQ GB 2295448 B UPAB: 970407

Process for the ignition of combustible gas which is released in a flame tower, where a priming means is fired towards the gas release and brought to produce a temperature sufficient in a portion of the gas flow, for the gas to be ignited, wherein the priming means is caused to impact against a stop means arranged at the gas release whereby the priming means detonates and spreads a stream of incandescent particles into the outflowing combustible gas, which is thereby ignited.

Dwg.1

=> d l4 1-3 ibib abs

L4 ANSWER 1 OF 3 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD
ACCESSION NUMBER: 95-036621 [05] WPIDS
DOC. NO. NON-CPI: N95-028791
TITLE: Igniting inflammable and combustible gases in flame tower of oil and gas drilling platform - having primer projectile fired in path towards release of gas forming flow of incandescent particles into gas flow providing ignition.
DERWENT CLASS: Q73
INVENTOR(S): **BJORKHAUG, M**; DAGESTAD, S; ODEMARK, T; BJ RKHAUG, M; DEMARK, T
PATENT ASSIGNEE(S): (DENO) DEN NORSKE STATS OLJESELSKAP AS; (DENO) STATOIL DEN NORSKE STATS OLJESELSKAP AS
COUNTRY COUNT: 3
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 9429648	A1	941222	(9505)*	EN	20
NO 9302017	A	941205	(9506)		
AU 9469856	A	950103	(9521)		
NO 177162	B	950418	(9521)		
GB 2295448	A	960529	(9625)		1
GB 2295448	B	970312	(9714)		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9429648	A1	WO 94-NO101	940530
NO 9302017	A	NO 93-2017	930603
AU 9469856	A	AU 94-69856	940530
NO 177162	B	NO 93-2017	930603
GB 2295448	A	WO 94-NO101	940530
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GB 2295448	B	WO 94-NO101	940530
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FILING DETAILS:

PATENT NO	KIND		PATENT NO
AU 9469856	A	Based on	WO 9429648
NO 177162	B	Previous Publ.	NO 9302017
GB 2295448	A	Based on	WO 9429648
GB 2295448	B	Based on	WO 9429648

PRIORITY APPLN. INFO: NO 93-2017 930603
AN 95-036621 [05] WPIDS
AB WO 9429648 A UPAB: 950207
The process involves releasing a flow of combustible gas (18) into a flame tower (62), where a primer (14) is used to produce a temperature sufficient in a particular portion of the gas flow for the gas to be ignited. The primer is fired in a path (16) in a direction towards the gas release, and impacts against a stop (24) and detonates.

This spreads a stream of incandescent particles (26) into the outflowing combustible gas (18), which is then ignited. The primer is fired using a pressure fluid-priming mechanism (10), using air. A set number of primers are fired to ensure that the gas is ignited.

ADVANTAGE - Produces high lighting reliability even at first firing off.
Dwg.1/4

ABEQ GB 2295448 B UPAB: 970407
Process for the ignition of combustible gas which is released in a flame tower, where a priming means is fired towards the gas release and brought to produce a temperature sufficient in a portion of the gas flow, for the gas to be ignited, wherein the priming means is caused to impact against a stop means arranged at the gas release whereby the priming means detonates and spreads a stream of incandescent particles into the outflowing combustible gas, which is thereby ignited.
Dwg.1

L4 ANSWER 2 OF 3 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD
ACCESSION NUMBER: 94-358231 [44] WPIDS
DOC. NO. NON-CPI: N94-280664
DOC. NO. CPI: C94-163492
TITLE: Recovery of excess gas in a plant for the treatment of oil and gas - in which the need for burning off the excess gas is reduced by conducting the excess gas back to the gas fraction formed in the main process.
DERWENT CLASS: H01 Q75
INVENTOR(S): **BJORKHAUG, M**; HOPE, T; BJ RKHAUG, M; LILLESUND, J
PATENT ASSIGNEE(S): (DENO) DEN NORSKE STATS OLJESELSKAP AS; (DENO) STATOIL DEN NORSKE STATS OLJESELSKAP AS
COUNTRY COUNT: 48
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 9425541	A1	941110	(9444)*	EN	25
RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE					
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NO 9301596	A	941104	(9502)		
AU 9466593	A	941121	(9508)		
NO 177161	B	950418	(9521)		
GB 2293000	A	960313	(9614)		21
GB 2293000	B	970528	(9724)		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9425541	A1	WO 94-NO81	940503
NO 9301596	A	NO 93-1596	930503
AU 9466593	A	AU 94-66593	940503
NO 177161	B	NO 93-1596	930503
GB 2293000	A	WO 94-NO81	940503
		GB 95-22621	951103
GB 2293000	B	WO 94-NO81	940503
		GB 95-22621	951103

FILING DETAILS:

PATENT NO	KIND		PATENT NO
AU 9466593	A	Based on	WO 9425541

NO 177161 B Previous Publ. NO 9301596
GB 2293000 A Based on WO 9425541
GB 2293000 B Based on WO 9425541

PRIORITY APPLN. INFO: NO 93-1596 930503
AN 94-358231 [44] WPIDS
AB WO 9425541 A UPAB: 941223
Arrangement in an oil/gas treatment plant where excess gas is intercepted from a number of sources and led through a collection conduit (40) for recovery, in which (a) the collection conduit (40) downstream of the sources has a branching point (70) having a branch conduit in which safety arrangements including a torch (74) are coupled; (b) which safety arrangements primarily close off the branch conduit; but (c) secondarily open the branch conduit for diverting the excess gas to the torch (74), when the pressure of the gas exceeds a given value and/or when an irregular emergency situation occurs in the plant.
USE - Recovering excess gas in a plant for the treatment of oil and gas,
ADVANTAGE - The arrangement reduces the need for burning off the excess gas, by conducting the excess gas back, with safety, to the gas fraction formed in the main process.
Dwg.2/3
ABEQ GB 2293000 B UPAB: 970612
A device in an oil/gas treatment plant where excess gas is intercepted from a number of sources and led through a collection conduit (40) for advancing for recovery, characterised in that the collection conduit (40) downstream of the sources, comprises a branching point (70) having a branch conduit in which safety arrangements (72,76,78,74) including a torch (74) are coupled, which safety arrangements primarily close off the branch conduit, but secondarily open the branch conduit for diverting the excess gas to the torch (74), when the pressure of the excess gas exceeds a given value and/or when a malfunction occurs in the plant.
Dwg.1

L4 ANSWER 3 OF 3 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD
ACCESSION NUMBER: 89-356522 [48] WPIDS
DOC. NO. NON-CPI: N89-271052
TITLE: Pressure relief panel for drilling rig modules - has aluminium pressure plate mounted in frameworks.
DERWENT CLASS: Q43 Q46
INVENTOR(S): **BJORKHAUG, M**
PATENT ASSIGNEE(S): (STOR-N) STORD OFFSHORE AS; (MICH-N) MICHELSENS C INST; (VVSS-N) VVS-STORD AS
COUNTRY COUNT: 14
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 8911007	A	891116	(8948)*	EN	15
RW: AT BE CH DE FR GB IT LU NL SE					
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NO 8802089	A	891211	(9004)		
NO 9004911	A	901113	(9109)		
CA 1328395	C	940412	(9420)#		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 8911007	A	WO 88-NO44	880513

PRIORITY APPLN. INFO: NO 88-2089 880513
AN 89-356522 [48] WPIDS
AB WO 8911007 A UPAB: 930923

A pressure relief panel (10) is for drilling rig module or similar installations having an aluminium panel plate (11) fitted to a framework (12) so that a concave surface is presented to the closed space (19). The panel plate (11) is fixed to the inside face of a cross member (16) and located at the ends (11a) (11b) in the framework (12) by fittings which are releasable by the exertion of an air pressure in the closed space (19).

In the event of an explosion in the closed space the panel plate is released by the generated force at the ends but is retained in an open mode on the framework by the fixing (20) at the cross member. Further, ingress is obtainable by the use of relatively low force.

USE/ADVANTAGE - For drilling rig modules or similar. Plates are retained on framework after releasing explosive pressures.
1,2/12

FILE 'SCISEARCH' ENTERED AT 21:38:29 ON 24 JUL 1998

E DAGESTAD/AU
E ODEMARK/AU
E BJORKHAUG/AU

L5 3 S E6

Sci Search

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FILE 'SCISEARCH' ENTERED AT 21:38:29 ON 24 JUL 1998
COPYRIGHT (C) 1998 Institute for Scientific Information (ISI) (R)

FILE COVERS 1974 TO 17 Jul 1998 (19980717/ED)

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E12           17      ODEMPSEY T J D/AU
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L5 ANSWER 1 OF 3 SCISEARCH COPYRIGHT 1998 ISI (R)
AN 89:155559 SCISEARCH
GA The Genuine Article (R) Number: T6252
TI CONCENTRATION EFFECTS ON FLAME ACCELERATION BY OBSTACLES IN LARGE-SCALE METHANE AIR AND PROPANE AIR VENTED EXPLOSIONS
AU HJERTAGER B H (Reprint); FUHRE K; **BJORKHAUG M**
CS CHRISTIAN MICHELSEN INST, DEPT SCI & TECHNOL, N-5036 FANTOFT, NORWAY (Reprint)
CYA NORWAY
SO COMBUSTION SCIENCE AND TECHNOLOGY, (1988) Vol. 62, No. 4-6, pp. 239-256.
DT Article; Journal
FS ENGI
LA ENGLISH
REC Reference Count: 11
CC ENERGY & FUELS; ENGINEERING
RE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)
ABDELGAYED R G	1982	16	51	SM STUDY
BALLAL R	1974		1473	15TH S INT COMB COMB
ECKHOFF R K	1984	7	191	FIRE SAFETY J
HERTZBERG M	1982	16	3	SM STUDY
HJERTAGER B H	1982	27	159	COMBUST SCI TECHNOL
HJERTAGER B H	1985	94	504	PROGR AIAA AM I AERO
HJERTAGER B H	1982	16	407	SM STUDY
LEE J H	1983		1	CONTROL PREVENTION G
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